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File: USPT

Jul 22, 2003

DOCUMENT-IDENTIFIER: US 6598083 B1

TITLE: System and method for communicating over a non-continuous connection with a device on a network

Abstract Text (1):

A novel system and method for communicating over a non-continuous connection with an entity on a local area network (LAN) reduces the costs and risks associated with maintaining a continuous connection between the LAN and an external network, such as the Internet. The invention may use a trusted arbitrator as an intermediary between the LAN and external entities seeking to communicate with an entity within the LAN. Requests from external entities are routed to the trusted arbitrator, which contacts a connection entity within the LAN. The connection entity authenticates the contact and causes a connection to be established to the external network and thereby with the trusted arbitrator.

Current US Original Classification (1):709/229Current US Cross Reference Classification (1):709/225



US006598083B1

(12) **United States Patent**
Remer et al.

(10) **Patent No.:** US 6,598,083 B1
(45) **Date of Patent:** Jul. 22, 2003

(54) **SYSTEM AND METHOD FOR
COMMUNICATING OVER A NON-
CONTINUOUS CONNECTION WITH A
DEVICE ON A NETWORK**

(75) **Inventors:** Eric B. Remer, American Fork, UT
(US); David A. Kling, Highland, UT
(US); David L. Remer, Orem, UT (US)

(73) **Assignee:** Intel Corporation, Santa Clara, CA
(US)

(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 09/475,082

(22) **Filed:** Dec. 30, 1999

(51) **Int. Cl.⁷** G06F 15/16; G06F 15/173

(52) **U.S. Cl.** 709/229; 713/201; 709/225

(58) **Field of Search** 370/401, 239;
709/229, 222, 250, 201; 705/79, 39, 34,
77; 713/201

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Primary Examiner—David Wiley

Assistant Examiner—M. Delgado

(74) *Attorney, Agent, or Firm*—Pillsbury Winthrop LLP

(57) **ABSTRACT**

A novel system and method for communicating over a non-continuous connection with an entity on a local area network (LAN) reduces the costs and risks associated with maintaining a continuous connection between the LAN and an external network, such as the Internet. The invention may use a trusted arbitrator as an intermediary between the LAN and external entities seeking to communicate with an entity within the LAN. Requests from external entities are routed to the trusted arbitrator, which contacts a connection entity within the LAN. The connection entity authenticates the contact and causes a connection to be established to the external network and thereby with the trusted arbitrator.

22 Claims, 10 Drawing Sheets

